

I CLAIM:

1. A wireless network telephone system comprised of:
  - a wireless telephone module for two-way voice communication with external cellular phone;
  - 5 an analog/digital conversion unit to convert voice analog signals into digital signals or to convert digital signals received into analog signals;
  - a compression/decompression unit to receive and compress digital signals outputted from the analog/digital conversion unit, or to decompress and transmit compressed signals to the analog/digital conversion unit;
  - 10 a memory to register programming and temporary data and a CPU, to control operating flow among those units;
    - characterized by that telecommunication signals being activated by the wireless telephone module for the embedded CPU to process and control voice information.
- 15 2. A wireless network telephone system as claimed in Claim 1, wherein, voice information process and control between the wireless network module and the CPU includes:
  - code checking procedure to ensure legitimate right of use of the operator; and
  - 20 online connection determination procedure, so that upon successful

connection, modular functions to directly enter into network dial pending procedure for input of telephone number of the receiver, or before signals entering into network connection function, the transmission end being able to directly remote control connection to network via the wireless module.

5